PARTS INFORMATION PROGRAM
ELECTRONIC PARTS ENGINEERING OFFICE 507

PIP No. 339

Revision A

JPL

Jet Propulsion Laboratory
California Institute of Technology

DATE: September 19, 1996

SUBJECT:

Known-Good-Die (KGD) Data/Information

SUMMARY:

KGD data and information is now being collected as part of the Commercial Off-The-Shelf (COTS) program underway in the JPL Electronic Parts Engineering Office 507. The purpose of the KGD effort is to keep potential users of KGD, especially for Multi-Chip-Modules (MCM), Chip-On-Board (COB), and hybrid applications, abreast of new data and information as it relates to KGD. KGD is a broad subject and encompasses among other things, suppliers of KGD, yield of KGD, die size, testing and burn-in, transportation and handling, quality/reliability, extended qualification of die purchased to meet MCM and Space Application requirements, and including known-good-wafer (KGW). This is a new and comprehensive subject. There is not even agreement on its definition and standards are not yet developed that apply to the various aspects of KGD usage. Therefore since most people are in a learning phase in using and applying KGD it behooves everyone to share what we have learned and know so that the best decisions can be made when using KGD for future hardware and designs.

Some information collected and retrieved from KGD vendors is available for public sharing and includes: multiple vendors survey and rating of their KGD programs, details on different KGD vendor programs options, parts offered as KGD, KGD screening, documentation provided, and KGD carrier solutions for test and burn-in. Other COTS information, included in the COTS Electronic Parts General Program designed to provide service and information to the JPL community, will be provided at a later time. If other KGD information or service is needed, please let us know.

The information can now be retrieved for those who have access to JPL AppleShare. You should connect to JPL-303-514-Enet-A, and select file server Michael A. Sandor, and go into the Share folder. All the files available are in Excel 5.0 and Word 6.0 format. The file "COTSVEN.DOC" is an introduction to the COTS program. In the near future this information will be available on the World Wide Web.

FOR ADDITIONAL INFORMATION CONTACT:

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APPROVED:_____

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